



Using a GIS/MAXIMO® Interface

Bureau of Reclamation

Socorro, NM Field Office

2004 Facilities and Asset Management Conference




May 5, 2004

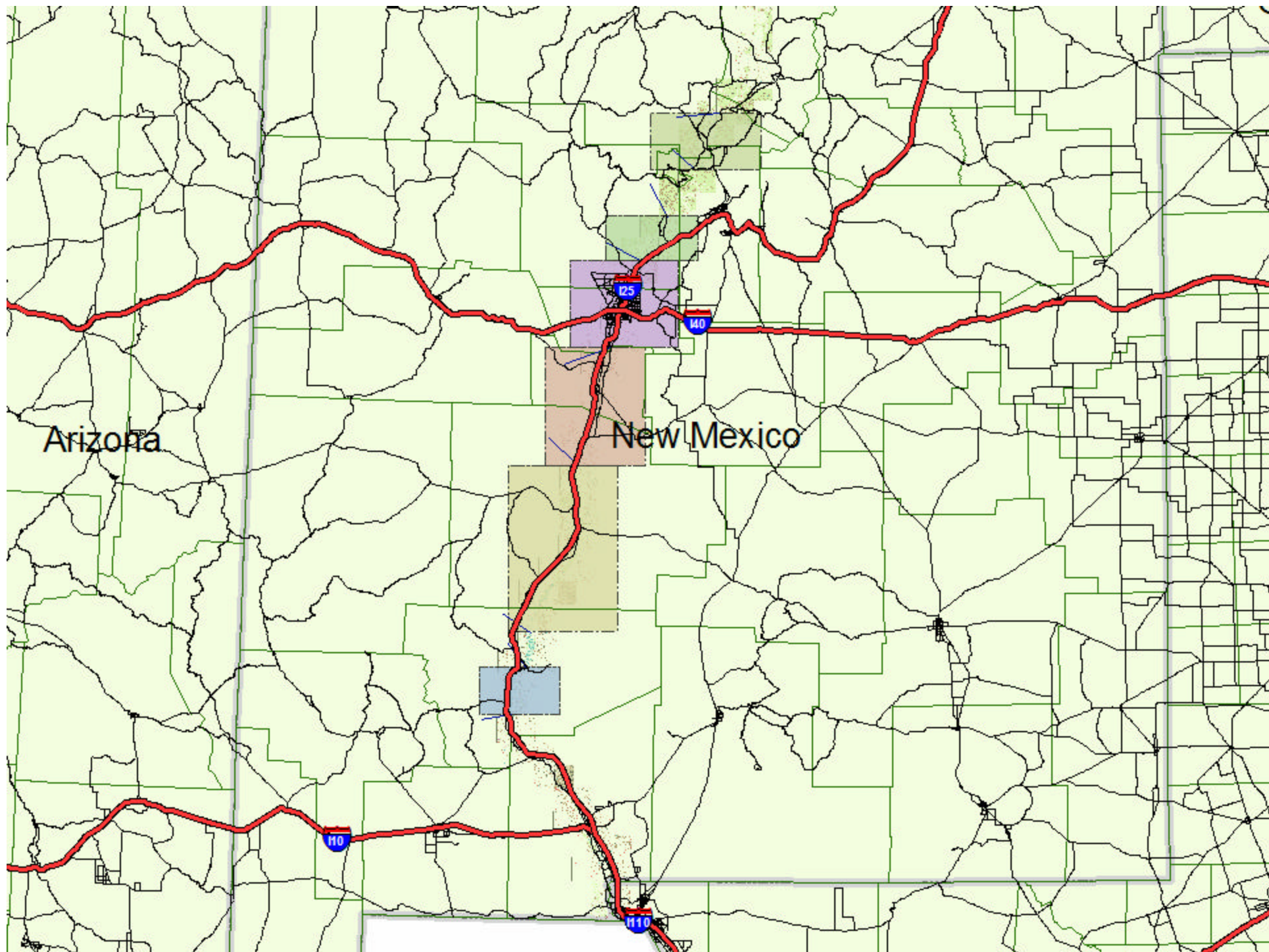
Assad B. Reichdan, II – Senior Analyst

Solutions for Your Success

Background

Socorro, NM Field Office

-  Responsible for river maintenance for the Rio Grande in New Mexico.
-  Approximately 300 miles of river.
 - Includes river, embankments, irrigation canals, pumping sites, dams, wild life monitoring
-  Implemented MAXIMO® to support project planning and construction, inventory management.



The Challenge

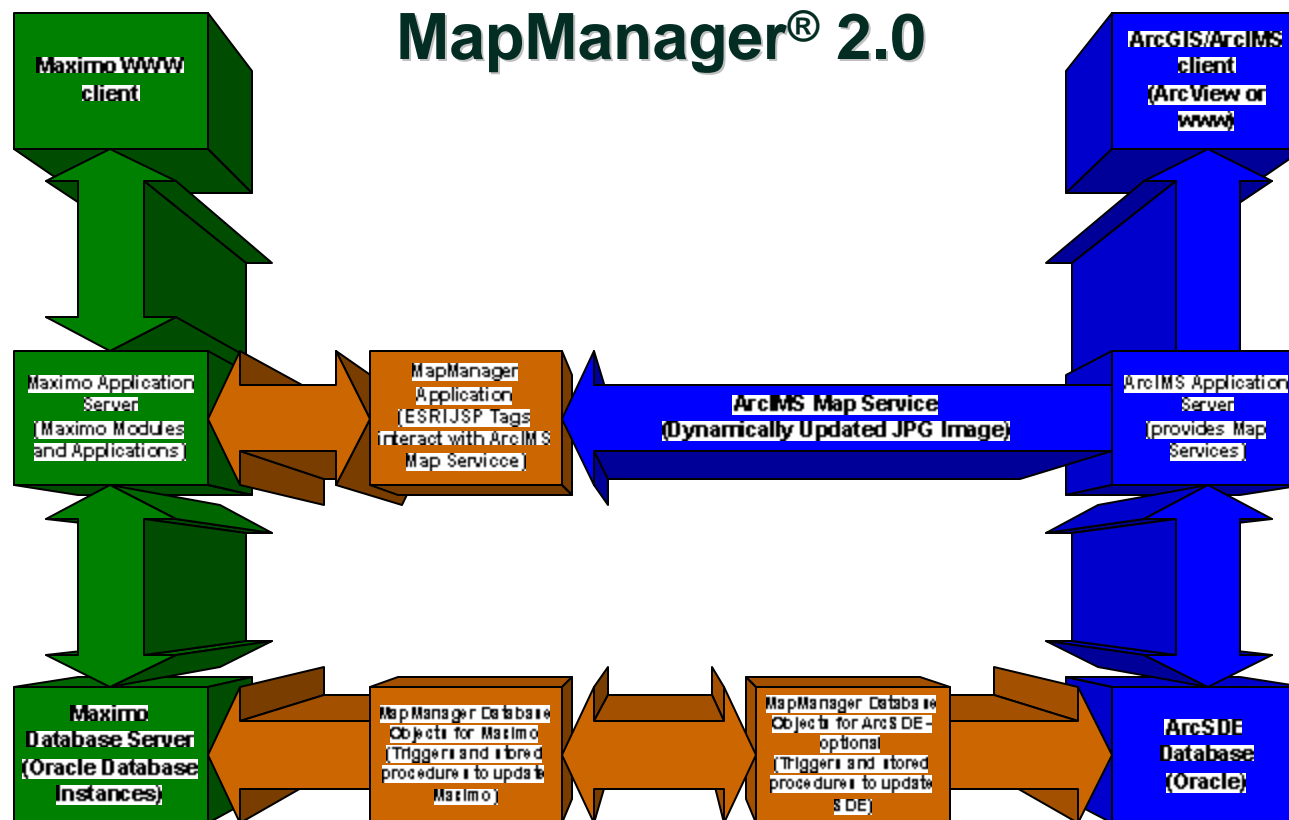
- ✍ Managing construction projects with MAXIMO® .
- ✍ Referencing construction sites along the Rio Grande
- ✍ Creating MAXIMO® assets from construction sites.

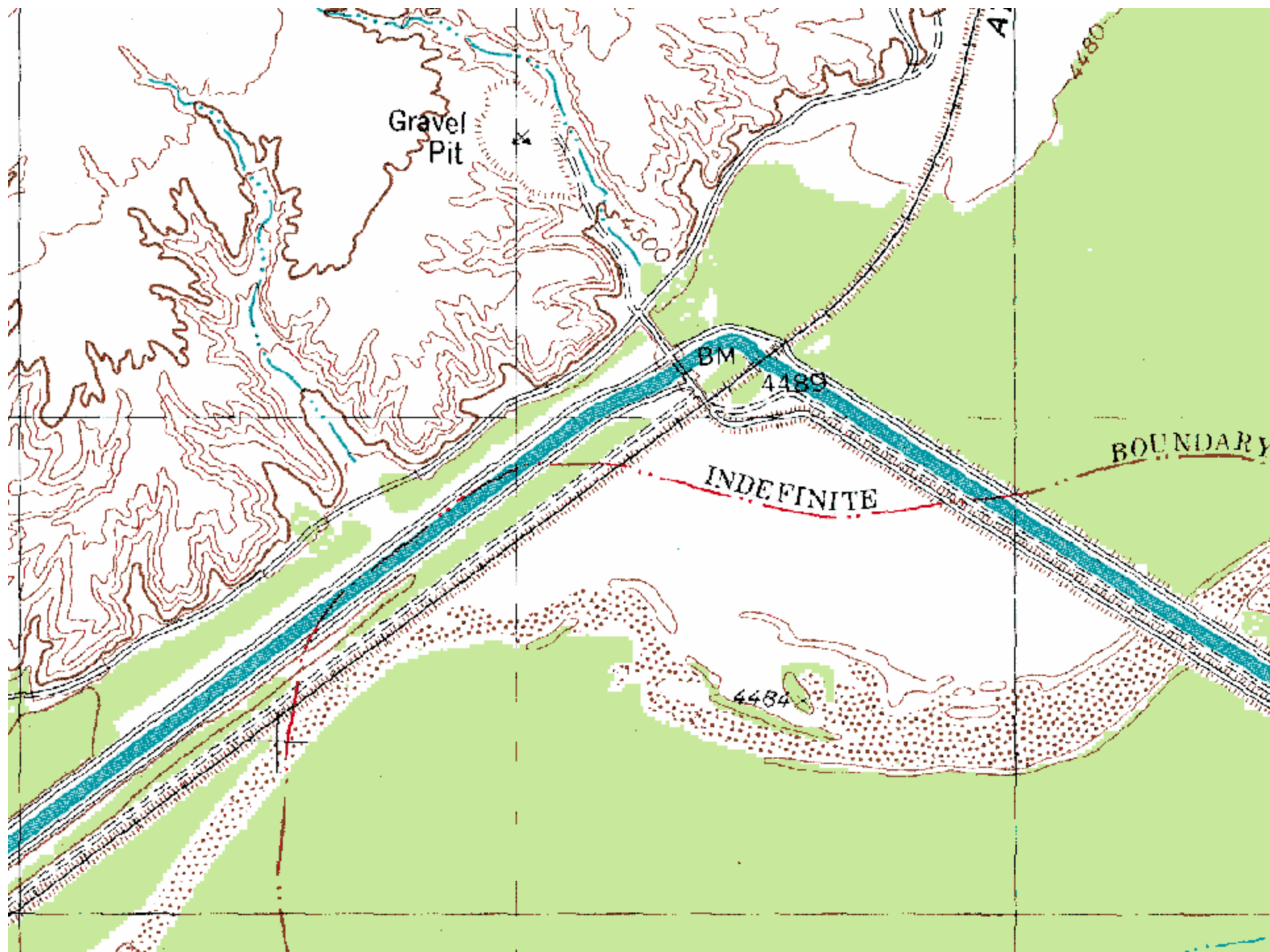
The Solution

- ✍ Managing Construction Projects with MAXIMO®.
 - ✍ Construction projects created as work orders.
 - ✍ Major project phases created as child work orders.
 - ✍ Project activities created as work order tasks.
 - ✍ Cost estimating and tracking using MAXIMO® budgeting and tracking features.
 - ✍ Resource allocation using MAXIMO® features.

The Solution

- ✍ Referencing construction sites along the Rio Grande.





Welcome Assad B. Reichdan, you are logged into site: BLCKFEET.

maximo™

Start Center



My Workflow Assignments



Work

Work Order Tracking
Quick Reporting
Work Requests
Map Manager



PM



Inventory



Equipment



Purchasing



Plans



Resources



Reports

Displaying 0 - 0

123

Description	Process Type	Record #	Site	Priority	Due Date
No Inbox Assignments found for Assad B. Reichdan.					
Refresh					

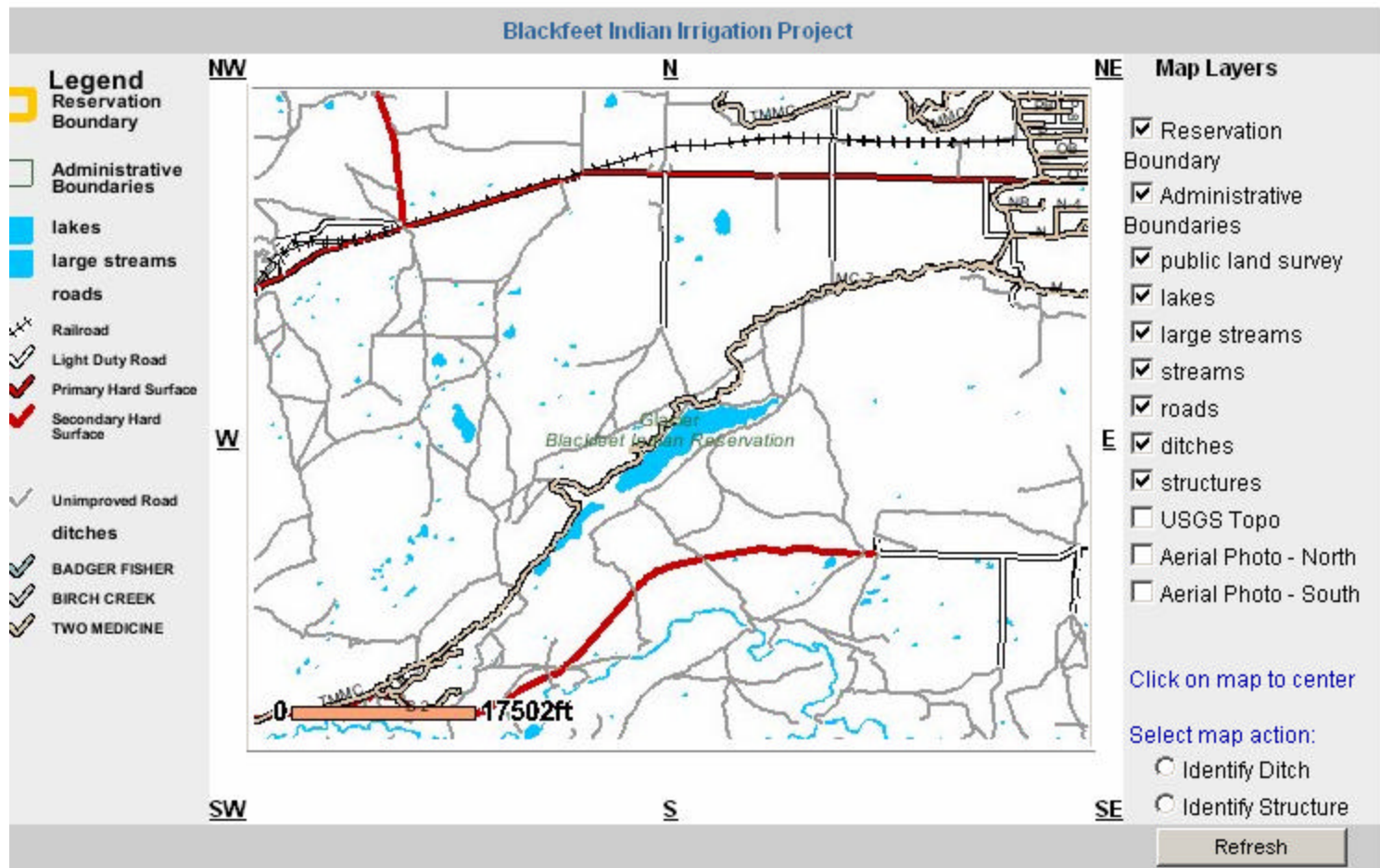
ent Query: Select Action

Work Order Plans Actuals Safety Plan Failure Reporting Linked Documents

Work Order: <input type="text" value="1172"/>	<input type="text" value="Remove debris from under bridge (GIS Test)"/>	In Workflow? <input type="checkbox"/>	Work Type: <input type="text"/>
Location: <input type="text" value="C51370003MC"/>	<input type="text" value="CANAL TMMC"/>	WO Priority: <input type="text"/>	GL Account: <input type="text"/>
Equipment: <input type="text" value="C51370003MC"/>	<input type="text" value="BRIDGE - 092083"/>	Loc/Eq Priority: <input type="text" value="0"/>	Warranty: <input type="text"/>
Reported By: <input type="text" value="AREICH DAN"/>	Reported Date: <input type="text" value="11/17/03 12:00 AM"/>	Equipment Up? <input checked="" type="checkbox"/>	Work Phone: <input type="text" value="303-231-5224"/>
Status: <input type="text" value="WAPPR"/>	Status Date: <input type="text" value="11/17/03 9:59 AM"/>	Charge To Store? <input type="checkbox"/>	
Parent WO: <input type="text"/>	Change Status on Child Work Orders? <input checked="" type="checkbox"/>		

Job Details		Problem	Follow-up Work
Job Plan: <input type="text"/>	PM: <input type="text"/>	Failure Class: <input type="text"/>	Originating WO: <input type="text"/>
Safety Plan: <input type="text"/>	Service Contract: <input type="text"/>	Problem Code: <input type="text"/>	Has Follow-up Work? <input type="checkbox"/>

Scheduling Information		Responsibility
Start	Finish	Supervisor: <input type="text"/>
Target: <input type="text"/>	<input type="text" value="12/1/03 12:00 AM"/>	Labor Group: <input type="text"/>
Scheduled: <input type="text"/>	<input type="text"/>	Lead Craft/Person: <input type="text"/>
Actual: <input type="text"/>	<input type="text"/>	
Estimated Duration: <input type="text" value="0:00"/> Crew: <input type="text"/>		Modified
Remaining Duration: <input type="text"/> Interruptible? <input type="checkbox"/>		By: <input type="text" value="AREICH DAN"/>
		Date: <input type="text" value="11/17/03 9:59 AM"/>



The Solution

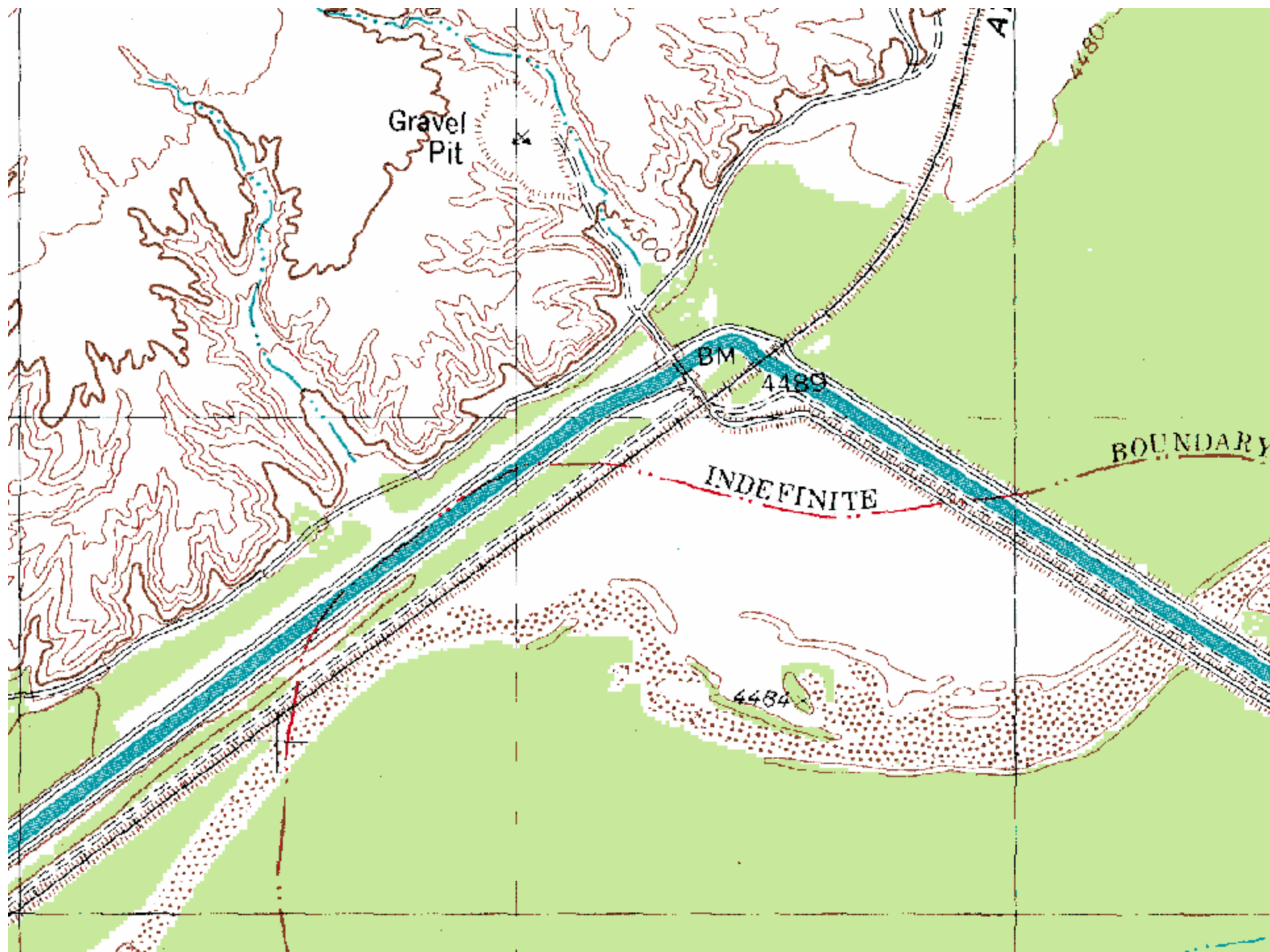
✍ Creating MAXIMO® assets from construction sites.

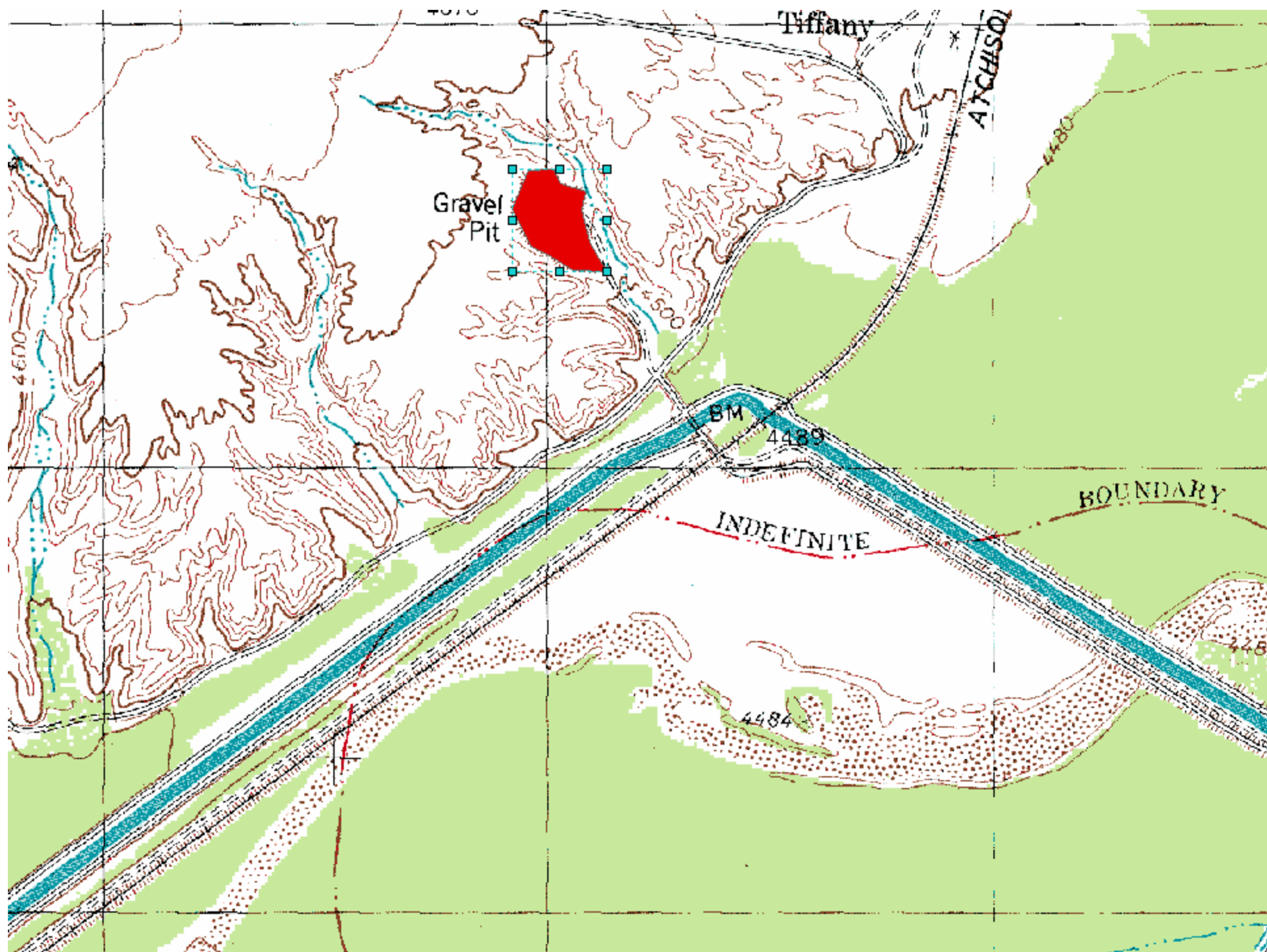


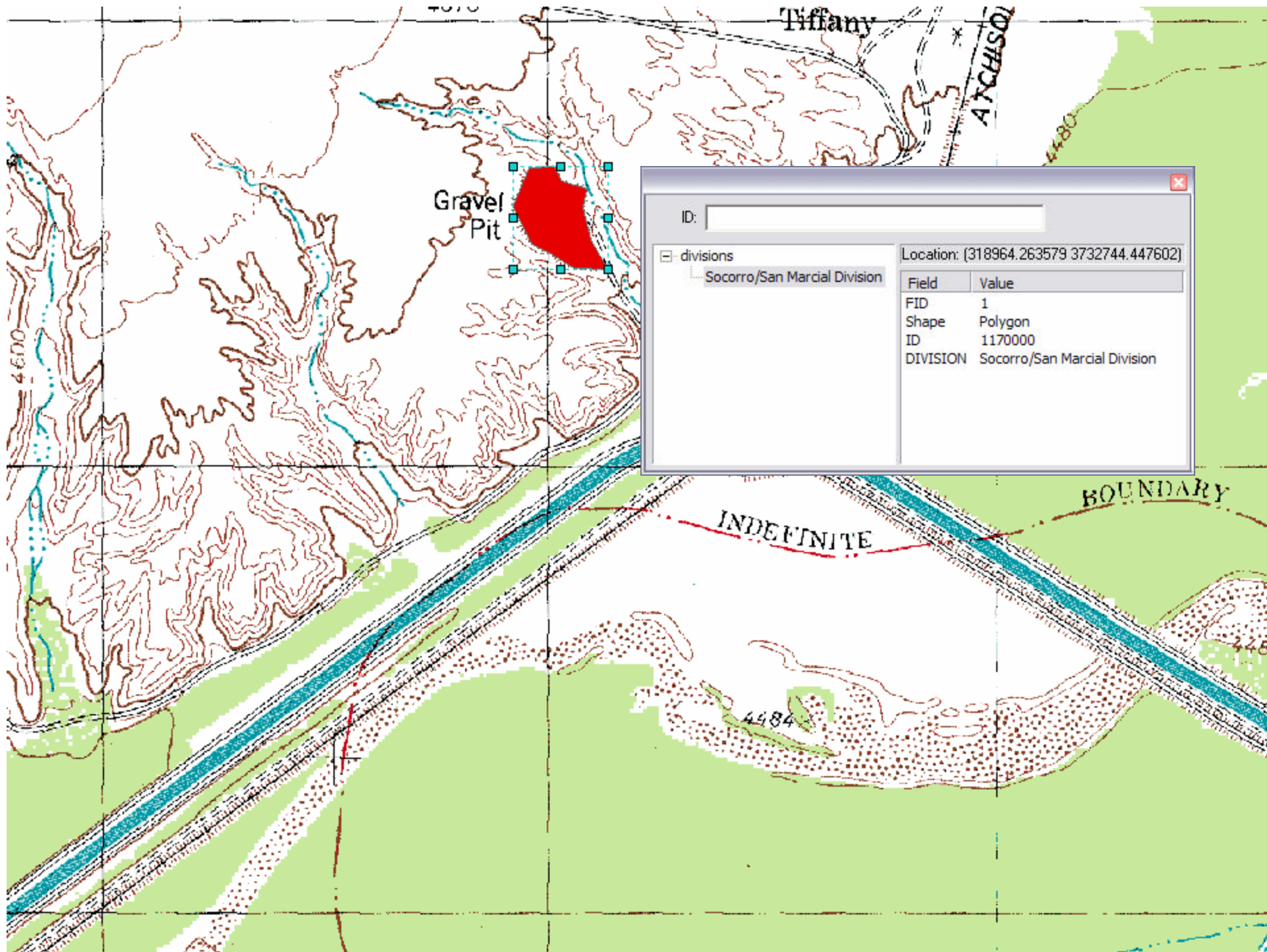
Creating MAXIMO® assets from construction sites



- ✍ GPS-enabled PDA with GIS Software customize to create points and polygons representing the construction site.
- ✍ GIS attributes include the pre-defined identifier for the site.







Data Transfer Process



- ✍ New GIS record (polygon or point) with its unique identifier.
- ✍ Record transferred back to GIS as shape file, coverage, or geodatabase record.
- ✍ Interface read new record from GIS.
- ✍ Three options for data transfer:
 - ✍ Create asset record only.
 - ✍ Create work order only.
 - ✍ Create asset record and work order.
- ✍ New record(s) created in MAXIMO®.

Thank You

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